ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR GRID-ENABLED VIRTUAL MACHINES
5   ### WITH DISTRIBUTED MANAGEMENT OF APPLICATIONS

A method, apparatus, computer program product, and
data processing system provide for operation of a virtual
10   machine with embedded functionality for interoperating
with other virtual machines in a computational grid. A
plurality of virtual machines are run on one or more
devices within a data processing system; each virtual
machine incorporates functionality for interoperating and
15   associating with other virtual machines in a virtual
machine cluster in a grid-like manner. Each virtual
machine in the virtual machine cluster acts as a node
within the virtual machine cluster. The virtual machines
share information such that a virtual machine may be
20   added to the virtual machine cluster or such that a
virtual machine may be removed from the virtual machine
cluster as the virtual machine cluster continues to run.
Load-balancing operations may be performed within the
virtual machine cluster, and threads and objects may be
25   moved within the virtual machine cluster.